

## ABSTRACT

### SYSTEM AND METHOD FOR MONITORING AND CONTROL OF PROCESSES AND MACHINES

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10 The disclosed invention includes a system and method for monitoring and control  
of processes and machines. A computer-implemented method for monitoring and  
controlling a process comprises storing process attribute information of objects in a  
plurality of databases, receiving at least one process measurement from a measurement  
device, similarity searching the at least one process measurement against the process  
attribute information stored in the databases, assigning a similarity score to the process  
measurement, comparing the similarity score to a match tolerance level, computing a  
process action for at least one process machine, via an algorithm having a process  
variable, replacing the process variable in the algorithm with the process measurement  
15 where the similarity score is equal to or greater than the match tolerance level, replacing  
the process variable in the algorithm with a set point where the similarity score is lower  
than the match tolerance level, and communicating the process action to a process  
machine.